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Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application N	Applicant(s)
•	09/808,503	MCLEAN, JAMES GORDON
Office Action Summary	Examiner	Art Unit
•	Dmitry Brant	2655
The MAILING DATE of this communic		
Period for Reply	••	·
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNION. - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum stated the second period for reply within the set or extended period for reply within the set o	CATION. of 37 CFR 1.136(a). In no event, however, may a inication.) days, a reply within the statutory minimum of the utory period will apply and will expire SIX (6) MC will, by statute, cause the application to become A	reply be timely filed irreply be timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed	d on <u>03/14/01</u> .	
, — ·	b)⊠ This action is non-final.	
3) Since this application is in condition f closed in accordance with the practic		
Disposition of Claims		*
4) ☐ Claim(s) 1-31 is/are pending in the ap 4a) Of the above claim(s) is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-31 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restrict	e withdrawn from consideration.	
Application Papers		
9)☐ The specification is objected to by the		
10) The drawing(s) filed on is/are:	a) ☐ accepted or b) ☐ objected to	by the Examiner.
Applicant may not request that any object		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (P 3) ☒ Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date 4.	TO-948) Paper N	w Summary (PTO-413) o(s)/Mail Date of Informal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. The U.S. patents of Sone, Lee, and Zampini et al., teach computer-based systems and hence the methods, computer-readable medium and computer code necessary to implement these systems are inevitably part of their teachings.
- 3. Claim 1,2,7-9,10, 13-15, 28, and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Sone (5,919,047).

The table below summarizes the limitations of this applicant's claims and the parts of Sone that match these limitations.

Claim#	Limitations	Sone
1, 28	A method for cross-fading digital audio, comprising the steps of:	Differences in musical properties,
	(a) determining a plurality of characteristics for a first and a	such as volume and rhythm between
	second digital audio files and (b) associating the plurality of	the preceding and the succeeding
	characteristics with the first and the second digital audio files	files are extracted (Col. 8, lines 50-
		55)

	(c) automatically determining an appropriate cross-fading	Based on the difference extraction,
:	method for the first and the second digital audio files based upon	optimal linking mode is selected
	the plurality of characteristics when the first and the second	(Col. 8, lines 55-57)
	digital audio files are to be cross-faded	
	(d) automatically cross-fading the first and the second digital	(elem. S25, Fig. 6) and (Col. 8,
	audio files in accordance with the cross-fading method.	lines 57-60)
2	The method of claim 1, wherein the determining step (a)	The mode selection may be
	comprises: (a1) determining the plurality of characteristics by a	performed by the user (Col. 9, lines
	user for the first and the second digital audio files.	2-3)
7	The method of claim 1, wherein the associating step (b)	preloading the characteristics of
	comprises: (b1) storing the plurality of characteristics in a	music data ahead of the actual
	temporary memory.	playback (Col. 8, lines 24 - 28) and
		storing these characteristics in
		buffer memory (Col. 8, lines 33-35)
8	The method of claim 1, wherein the automatically determining	,
	step (c) comprises:	
	(c1) comparing an ending characteristic for the first digital	The trailing end of "sabi" section is
	audio file with a beginning characteristic for the second	compared with the leading piece of
	digital audio file;	the next sabi section (Col. 8, lines
		48-55)
	(c2) determining the appropriate cross-fading method based	Based on the difference extraction,
	upon the comparing step (c1);	optimal linking mode is selected
		(Col. 8, lines 55-57)

	(c3) calculating a fade-out start time or an ending time for the	The end time for first song and start
	first digital audio file;	time for the second songs are
	(c5) defining a start time for the second digital audio file; and	determined (FIG. 2) by "sabi"
		markers that signify the beginning
		and ends of the cross-fading
		sections, because sabi pieces do not
		get altered in cross-fading and thus
		specify ultimate bounds for the
		cross-fading section.
	(c4) defining an envelope for the first digital audio file;	FIG. 7(B) shows the first and
	(c6) defining an envelope for the second digital audio file.	second songs' envelopes, where
		cross-fading is performed by
		matching the volume envelopes
		(Col. 9, lines 31-36), i.e. decreasing
	·	the volume of first song and slowly
		increasing the volume of the second
		song.
9	The method of claim 1, wherein the automatically cross-fading	FIG. 7(B) shows the first and
	step (d) comprises:	second songs' envelopes, where
	(d1) fading out or ending the first digital audio file according to	cross-fading is performed by
	an envelope of the first digital audio file when a fade-out time or	matching the volume envelopes
	an ending time is reached; and	(Col. 9, lines 31-36), i.e. decreasing
	(d2) starting or fading in the second digital audio file according	the volume of first song until it ends
	to an envelope of the second digital audio file when a start time	and slowly increasing the volume of
		the volume of first song until it en

	is reached.	the second song until the "sabi"
		section of the second song is
		reached.
10	A method for cross-fading digital audio, comprising the steps of:	
	(a) determining a plurality of characteristics by a user for a first	Differences in musical properties,
	and a second digital audio files and (b) associating the plurality	such as volume and rhythm between
	of characteristics with the first and the second digital audio files	the preceding and the succeeding
		files are extracted (Col. 8, lines 50-
		55). In addition, the mode selection
		may be performed by the user (Col.
		9, lines 2-3)
	(c) automatically determining an appropriate cross-fading	Based on the difference extraction,
	method for the first and the second digital audio files based upon	optimal linking mode is selected
,	the plurality of characteristics when the first and the second	(Col. 8, lines 55-57)
	digital audio files are to be cross-faded	·
	(d) automatically cross-fading the first and the second digital	(elem. S25, Fig. 6) and (Col. 8,
	audio files in accordance with the cross-fading method.	lines 57-60)
13	The method of claim 10, wherein the associating step (b)	preloading the characteristics of
	comprises: (b1) storing the plurality of characteristics in a	music data ahead of the actual
	temporary memory.	playback (Col. 8, lines 24 - 28) and
		storing these characteristics in
		buffer memory (Col. 8, lines 33-35)
-L		<u> </u>

14	The method of claim 10, wherein the automatically determining	
	step (c) comprises:	
	(c1) comparing an ending characteristic for the first digital	The trailing end of "sabi" section is
	audio file with a beginning characteristic for the second	compared with the leading piece of
	digital audio file;	the next sabi section (Col. 8, lines
		48-55)
	(c2) determining the appropriate cross-fading method based	Based on the difference extraction,
	upon the comparing step (c1);	optimal linking mode is selected
		(Col. 8, lines 55-57)
	(c3) calculating a fade-out start time or an ending time for the	The end time for first song and start
	first digital audio file;	time for the second songs are
	(c5) defining a start time for the second digital audio file; and	determined (FIG. 2) by "sabi"
		markers that signify the beginning
:		and ends of the cross-fading
		sections, because sabi pieces do not
		get altered in cross-fading and thus
		specify ultimate bounds for the
	t .	cross-fading section.
	(c4) defining an envelope for the first digital audio file;	FIG. 7(B) shows the first and
	(c6) defining an envelope for the second digital audio file.	second songs' envelopes, where
		cross-fading is performed by
		matching the volume envelopes
		(Col. 9, lines 31-36), i.e. decreasing
		the volume of first song and slowly

		increasing the volume of the second
		song.
15	The method of claim 10, wherein the automatically cross-fading	FIG. 7(B) shows the first and
	step (d) comprises:	second songs' envelopes, where
	(d1) fading out or ending the first digital audio file according to	cross-fading is performed by
	an envelope of the first digital audio file when a fade-out time or	matching the volume envelopes
	an ending time is reached; and	(Col. 9, lines 31-36), i.e. decreasing
	(d2) starting or fading in the second digital audio file according	the volume of first song until it ends
	to an envelope of the second digital audio file when a start time	and slowly increasing the volume of
	is reached.	the second song until the "sabi"
		section of the second song is
		reached.
31	A system, comprising:	
	a first digital audio file;	Plurality of music pieces (Col. 1,
	a second digital audio file;	line 54-56)
	and a playing device, wherein the playing device determines	Differences in musical properties,
	a plurality of characteristics for the first and a second digital	such as volume and rhythm between
	audio files, associates the plurality of characteristics with the	the preceding and the succeeding
	first and the second digital audio files,	files are extracted (Col. 8, lines 50-
	mst and the second digital and a	55)
	automatically determines an appropriate cross-fading	Based on the difference extraction,
	method for the first and the second digital audio files based	optimal linking mode is selected
	upon the plurality of characteristics when the first and the	(Col. 8, lines 55-57)
	second digital audio file s are to be cross-faded, and	

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automatically cross-fades the first and the second digital

audio files in accordance with the cross-fading method.

(elem. S25, Fig. 6) and (Col. 8,

lines 57-60)

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3,4, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sone as applied to claim 1, and further in view of Lee (6,278, 048).

Sone discloses a karaoke device capable of medley playback using MIDI format (Col. 6, line 62). In addition, Sone discloses automatically analyzing the beginning of the last song with the beginning of the next song in order to determine if the characteristics (such as volume and rhythm) of the songs match (Col. 8, lines 48-55). Finally, FIG. 7(B) in Sone discloses the first and second songs' envelopes and their corresponding overlap in the cross-fade operation.

Sone does not disclose "automatically decompressing" the beginning and the end of the music files, because his invention uses MIDI format.

Lee teaches the decoding of MP3 files for a playback on a karaoke device (Col. 2, lines 42-46)

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Sone as taught in Lee to allow the karaoke device to use MP3 files instead of MIDI format. The use of compressed MP3 files would allow a karaoke machine to store more music files locally and, if necessary, download additional songs from the network, thus enhancing user experience. Because MP3 files are highly compressed, the system using MP3 files would inherently have to decompress at least parts of files in order to identify their characteristics (volume, rhythm, etc.), as disclosed by Sone.

As per claim 4, Sone discloses a karaoke device capable of medley playback using MIDI format (Col. 6, line 62). In addition, Sone discloses automatically analyzing the beginning of the last song with the beginning of the next song in order to determine if the characteristics (such as volume and rhythm) of the songs match (Col. 8, lines 48-55). Finally, Sone discloses preloading the characteristics of music data ahead of the actual playback (Col. 8, lines 24 - 28)

Sone does not disclose "automatically decoding" the beginning and the end of the music files.

Lee teaches the decoding of MP3 files for a playback on a karaoke device (Col. 2, lines 42-46)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Sone as taught by Lee to allow the karaoke device to use MP3 files instead of MIDI format. The use of compressed MP3 files would allow a karaoke machine to store more music files locally and, if necessary, download additional songs from the network, thus enhancing user experience. Because MP3 files are highly compressed, the system using MP3

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files would inherently have to decode at least parts of the files in order to identify their characteristics (volume, rhythm, etc), as disclosed by Sone.

As per claim 6, Sone does not disclose "storing the plurality of characteristics in a header or a tag in the first or the second digital audio file."

Lee teaches the decoding of MP3 files for a playback on a karaoke device (Col. 2, lines 42-46). MP3 files contain various information in the tags, such as music genre, which could be used to identify certain file characteristics.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Sone as taught in Lee to allow the karaoke device to use MP3 files instead of MIDI format. The use of compressed MP3 files would allow a karaoke machine to store more music files locally and, if necessary, download additional songs from the network, thus enhancing user experience. Additionally, file characteristics stored in MP3 tags would simplify system's task in choosing appropriate cross-fading mode.

6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sone in view of Zampini et al. (5,488,669), as applied to claim 1.

Sone does not disclose "storing the plurality of characteristics in at least one characteristics file associated with the first or the second digital audio file."

Zampini teaches "storing" user-defined cross-fading settings (Col. 4, lines 53-56). This configuration is stored in non-volatile memory of the computer (Col. 5, line 1) and hence, inherently, can be in the form of computer files.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Sone as taught by Zampini, in order to maintain a permanent record of user settings associated with audio file cross-fading. This would allow the user to import, export and re-use the same settings for multiple audio files, thus greatly enhancing the usability of the system. Additionally, file characteristics stored in MP3 tags would simplify system's task in choosing appropriate cross-fading mode.

7. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sone as applied to claim 10, and further in view of Zampini et al.

Sone does not disclose "storing the plurality of characteristics in at least one characteristics file associated with the first or the second digital audio file."

Zampini teaches "storing" user-defined settings that specify preferred characteristics for cross-fading (Col. 4, lines 53-56). This configuration is stored in non-volatile memory of the computer (Col. 5, line 1) and hence, is necessarily saved as a computer file.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Sone as taught by Zampini, in order to maintain a permanent record of stored, user-defined characteristics associated with cross-fading of audio files. This would allow the user to import, export and re-use the same settings for multiple audio files, thus greatly enhancing the usability of the system.

8. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sone as applied to claim 10, and further in view of Lee.

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Sone does not disclose "storing the plurality of characteristics in a header or a tag in the first or the second digital audio file."

Lee teaches the decoding of MP3 files for a playback on a karaoke device (Col. 2, lines 42-46). MP3 files contain various information in the tags, such as music genre, which could be used to identify certain file characteristics.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Sone as taught in Lee to allow the karaoke device to use MP3 files instead of MIDI format. The use of compressed MP3 files would allow a karaoke machine to store more music files locally and, if necessary, download additional songs from the network, thus enhancing user experience.

9. Claims 16, 18-21, 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sone in view of Lee.

As per claims 16 and 29, Sone discloses:

- a karaoke device capable of medley playback using MIDI format (Col. 6, line 62).
- automatically analyzing the beginning of the last song with the beginning of the next song in order to determine if the characteristics (such as volume and rhythm) of the songs match (Col. 8, lines 48-55)
- Performing cross-fading, as shown in FIG. 7(B), where it is performed by
 matching the volume envelopes (Col. 9, lines 31-36), i.e. decreasing the volume
 of first song and slowly increasing the volume of the second song.

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Sone does not disclose "decompressing" the beginning of the second musical file.

Lee teaches the decoding of MP3 files for a playback on a karaoke device (Col. 2, lines 42-46)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Sone as taught in Lee to allow the karaoke device to use MP3 files instead of MIDI format. The use of compressed MP3 files would allow a karaoke machine to store more music files locally and, if necessary, download additional songs from the network, thus enhancing user experience. Because MP3 files are highly compressed, the system using MP3 files would inherently have to decode at least parts of the files in order to identify their characteristics (volume, rhythm, etc), as disclosed by Sone.

As per claim 18, Sone does not disclose "storing the plurality of characteristics in a header or a tag in the first or the second digital audio file."

Lee teaches the decoding of MP3 files for a playback on a karaoke device (Col. 2, lines 42-46). MP3 files can inherently contain various information in the tags, such as music genre, which could be used to identify certain file characteristics.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Sone as taught in Lee to allow the karaoke device to use MP3 files instead of MIDI format. The use of compressed MP3 files would allow a karaoke machine to store more music files locally and, if necessary, download additional songs from the network, thus enhancing user experience.

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As per claim 19, Sone discloses preloading the characteristics of music data ahead of the actual playback (Col. 8, lines 24 - 28) and storing these characteristics in buffer memory (Col. 8, lines 33-35)

As per claims 20-21, Sone discloses that the end time for first song and start time for the second songs are determined (FIG. 2) by "sabi" markers that signify the beginning and ends of the cross-fading sections, because sabi pieces do not get altered in cross-fading and thus specify ultimate bounds for the cross-fading section. In addition, FIG. 7(B) shows the interaction between the first and second songs' envelopes, where cross-fading is performed by matching the volume envelopes (Col. 9, lines 31-36), i.e. decreasing the volume of first song and slowly increasing the volume of the second song.

10. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sone and Lee, as applied to claim 16, and further in view of Zampini et al.

Sone and Lee do not disclose "storing the plurality of characteristics in at least one characteristics file associated with the first or the second digital audio file."

Zampini teaches "storing" user-defined cross-fading settings (Col. 4, lines 53-56). This configuration is stored in non-volatile memory of the computer (Col. 5, line 1) and hence, is necessarily saved in the form of a computer file.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Sone and Lee, as taught by Zampini, in order to maintain a permanent record of user settings associated with audio file cross-fading. This would allow the user to

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import, export and re-use the same settings for multiple audio files, thus greatly enhancing the usability of the system.

11. Claims 22, 24-27, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sone in view of Lee.

As per claim 22 and 30, Sone discloses:

- a karaoke device capable of medley playback using MIDI format (Col. 6, line 62).
- automatically analyzing the beginning of the last song with the beginning of the next song in order to determine if the characteristics (such as volume and rhythm) of the songs match (Col. 8, lines 48-55)
- preloading the characteristics of music data ahead of the actual playback (Col. 8, lines 24 - 28)
- Performing cross-fading, as shown in FIG. 7(B), where it is performed by
 matching the volume envelopes (Col. 9, lines 31-36), i.e. decreasing the volume
 of first song and slowly increasing the volume of the second song.

Sone does not disclose "decompressing" the beginning of the second musical file.

Lee teaches the decoding of MP3 files for a playback on a karaoke device (Col. 2, lines 42-46)

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Sone as taught in Lee to allow the karaoke device to use MP3 files instead of MIDI format. The use of compressed MP3 files would allow a karaoke machine to store more music files locally and, if necessary, download additional songs from the network, thus enhancing user experience. Because MP3 files are highly compressed, the system using MP3 files would inherently have to decode at least parts of the files in order to identify their characteristics (volume, rhythm, etc), as disclosed by Sone.

As per claim 24, Sone does not disclose "storing the plurality of characteristics in a header or a tag in the first or the second digital audio file."

Lee teaches the decoding of MP3 files for a playback on a karaoke device (Col. 2, lines 42-46). MP3 files can inherently contain various information in the tags, such as music genre, which could be used to identify certain file characteristics.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Sone as taught in Lee to allow the karaoke device to use MP3 files instead of MIDI format. The use of compressed MP3 files would allow a karaoke machine to store more music files locally and, if necessary, download additional songs from the network, thus enhancing user experience.

As per claim 25, Sone discloses preloading the characteristics of music data ahead of the actual playback (Col. 8, lines 24 - 28) and storing these characteristics in buffer memory (Col. 8, lines 33-35)

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As per claims 26-27, Sone discloses that the end time for first song and start time for the second songs are determined (FIG. 2) by "sabi" markers that signify the beginning and ends of the cross-fading sections, because sabi pieces do not get altered in cross-fading and thus specify ultimate bounds for the cross-fading section. In addition, FIG. 7(B) shows the interaction between the first and second songs' envelopes, where cross-fading is performed by matching the volume envelopes (Col. 9, lines 31-36), i.e. decreasing the volume of first song and slowly increasing the volume of the second song.

12. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sone and Lee, as applied to claim 22, in further in view of Zampini et al.

Sone and Lee do not disclose "storing the plurality of characteristics in at least one characteristics file associated with the first or the second digital audio file."

Zampini teaches "storing" user-defined cross-fading settings (Col. 4, lines 53-56). This configuration is stored in non-volatile memory of the computer (Col. 5, line 1) and hence, is necessarily saved as a computer file.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Sone and Lee, as taught by Zampini, in order to maintain a permanent record of user settings associated with audio file cross-fading. This would allow the user to import, export and re-use the same settings for multiple audio files, thus greatly enhancing the usability of the system.

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Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Matsumoto (5,747,716) teaches medley playback apparatus.

Horii (5,454,723) teaches medley playback apparatus with cross-fading.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dmitry Brant whose telephone number is (703) 305-8954. The examiner can normally be reached on Mon. - Fri. (8:30am - 5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Talivaldis Ivars Smits can be reached on (703) 306-3011. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Tech Center 2600 receptionist whose telephone number is (703) 305- 4700.

DB 2/20/04

TALIVALDIS IVARS SMITS
PRIMARY EXAMINER